

<b>PTO-1449 (Modified)</b>  <b>U.S. DEPARTMENT OF COMMERCE</b> <b>PATENT AND TRADEMARK OFFICE</b>  <b>INFORMATION DISCLOSURE STATEMENT</b> <b>BY APPLICANT</b>	Attorney Docket No.: 702.279	Serial Number: 10/657,972
	Applicant: Darin J. Beesley, et al.	
	Filing Date: 9/1/03	Group: 3661

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS
Mr	3,883,847	05-1975	Frank, Amalie Julianna	711	206
Mr	5,208,593	05-1993	Tong et al.	341	65
Mr	5,821,887	10-1998	Zhu, Chunrong	341	67
Mr	6,021,406	02-2000	Kuznetsov, V.	707	6
Mr	6,047,280	04-2000	Ashby et al.	707	2
Mr	6,219,457	04-2001	Potu, Brahmaji	382	246
Mr	6,317,684	11-2001	Roeseler, et al.	701	202
Mr	6,317,687	11-2001	Morimoto, et al.	701	211
Mr	6,321,158	11-2001	DeLorme, et al.	701	201
Mr	6,393,149	05-2002	Friederich et al.	382	173
Mr	6,504,496	01-2003	Mesarovic et al.	341	106
Mr	6,563,440	05-2003	Kangas	341	65
Mr	2003/0006918	01-2003	Barnett	341	67

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

Mr	Nekritch, Y.; Byte-oriented decoding of canonical Huffman codes; IEEE-Information Theory 2000; June 2000; page 371
Mr	Chung et al.; Level-Compressed Huffman Decoding; IEEE-Transactions on Communication; Oct. 1999; vol. 47, no. 10; pages 1455-1457
Mr	An optimal pathfinder for vehicles in real-world digital terrain maps; <a href="http://www.neas.net/jamsoft/shortestpath/pathfinder/4.html">http://www.neas.net/jamsoft/shortestpath/pathfinder/4.html</a> , 11 pages (1999)

Mr J. L. 2/24/04

<i>me</i>	<u>Informed Search Methods, Artificial Intelligence, A Modern Approach</u> , Prentice Hall, Inc., pages 92-115 (1995)
	<u>Real-Time Vehicle Routing in Dynamic and Stochastic Urban Traffic Networks</u> , <a href="http://www.gpu.srv.ualberta.ca/lfu/research.htm">http://www.gpu.srv.ualberta.ca/lfu/research.htm</a> , pages 103 (1997)
	Ahuja, R., et al., <u>Faster Algorithms for the Shortest Path Problem</u> , <u>Journal of the Association for Computing Machinery</u> , 37(2), pages 213-223 (1990)
	Chung, V., et al., <u>An Efficient Implementation of Parallel A*</u> , CFPAR, Montreal, Canada, pages 153 — 167 (1994)
	Fredman, M. et al., <u>Fibonacci heaps and their uses in improved network optimization algorithms</u> , <u>Journal of the ACM</u> , 34(3), 2 pages (1987)
	Fu, L., <u>Heuristic Shortest Path Algorithms and their Potential IVHS Applications</u> , <u>Proceedings of the Fourth University of Alberta ~ University of Calgary, Joint Graduate Student Symposium In Transportation Engineering</u> , pages 83-109 (1995)
	Ikedo, T., et al., <u>A Fast Algorithm for Finding Better Routes by AI Search Techniques</u> , <u>Vehicle Navigation and Information Systems Conference Proceedings</u> , pages 291-296 (1994)
	Kaindl, H., et al., <u>Memory-Bounded Bidirectional Search*</u> , <u>Proceedings of the 12<sup>th</sup> National Conference on Art</u> , AAAI Press, Seattle, WA, pages 1359-1364 (1994)
	Laporte, G., <u>The Vehicle Routing Problem: An overview of exact and approximate algorithms</u> , <u>European Journal of Operational Research</u> , 59, pages 345-358 (1992)
	Myers, B., <u>Data Structures for Best-First Search</u> , <a href="http://www4.ncsu.edu/lbmymers/dsai.htm">http://www4.ncsu.edu/lbmymers/dsai.htm</a> , pages 1-6 (1997)
	Ronngren, R., et al., <u>Parallel and Sequential Priority Queue Algorithms</u> , <u>ACM Transactions on Modeling and Computer Simulation</u> , 7(2), pages 168-172, 198, 199 (1997)
	Stout, B., <u>Smart Moves: Intelligent Pathfinding, Gamasutra</u> , <a href="http://www.gamasutra.com/features/programming/080197/pathfinding.htm">http://www.gamasutra.com/features/programming/080197/pathfinding.htm</a> , pages 1-11 (1997)
	Wai, L. et al., <u>Comparative Study of Shortest Path Algorithm for Transport Network</u> , <u>USRP Report 2</u> , <a href="http://www.comp.nus.edu.sg/leonghoe/USRPreport-bt.html">http://www.comp.nus.edu.sg/leonghoe/USRPreport-bt.html</a> , pages 10-10 (1999)
	Zhan, F.B., <u>Three Fastest Shortest Path Algorithms on Real Road Networks: Data Structures and Procedures</u> , <u>Journal of Geographic Information and Decision Analysis</u> , 1(1), <a href="http://www.geog.uwo.ca/gimda/journal/vol.1.1/Zhan/Zhan.htm">http://www.geog.uwo.ca/gimda/journal/vol.1.1/Zhan/Zhan.htm</a> , 11 pages (1997)
<i>me</i>	Zhao, Y., et al., <u>An Adaptive Route-Guidance Algorithm for Intelligent Vehicle Highway Systems</u> , <u>American Control Conference, Boston, MA</u> , Department of Electrical Engineering and Computer Science, The University of Michigan, pages 2568-2573 (1991)

EXAMINER

DATE CONSIDERED

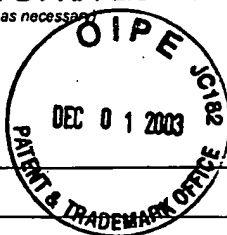
EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number 10/657972

Filing Date September 9, 2003

First Named Inventor Unknown

Group Art Unit ~~Unknown~~ 3661

Examiner Name Unknown

Sheet 1 of 1

Attorney Docket No: 1528.004US2

**US PATENT DOCUMENTS**

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
<i>me</i>	US-5,528,248	06/18/1996	Steiner, Glenn C., et al.	342	357	08/19/1994
<i>m</i>	US-5,938,721	08/17/1999	Dussell, William O., et al.	701	211	10/24/1996
<i>m</i>	US-6,266,612	07/24/2001	Dussell, William O., et al.	701	207	06/16/1999
<i>m</i>	US-6,411,899	06/25/2002	Dussell, William O., et al.	701	211	04/30/2001

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T <sup>2</sup>
--------------------	---------------------	------------------	-------------------------------------------------	-------	----------	----------------

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
--------------------	----------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------

EXAMINER

*mj lhu*

DATE CONSIDERED

*2/24/04*

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached